

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1-3 (canceled).

4. (previously presented): A drive unit including
an electric motor,
a drive unit casing accommodating therein the electric motor,
an inverter that controls the electric motor, and
a flow passage of a refrigerant that cools the inverter, the drive unit characterized in that
the inverter is mounted on the drive unit casing such that a heat sink united with a substrate of
the inverter defines a space on a portion thereof opposed to the drive unit casing,
the space is communicated to the flow passage of the refrigerant,
the heat sink comprises heat-sink side fins extending into the space toward the drive unit
casing,
separation means (6) for preventing thermal conduction is provided in the space, wherein
the separation means comprises a plurality of separation members (60) with a space (R3) there
between, and
both the heat-sink side fins and the drive unit casing contact directly with the separation
means.

5-12 (canceled).

13. (previously presented): A drive unit including
an electric motor,
a drive unit casing accommodating therein the electric motor,
an inverter that controls the electric motor, and
a flow passage of a refrigerant that cools the inverter, the drive unit characterized in that
the inverter is mounted on the drive unit casing such that a heat sink united with a substrate of
the inverter defines a space on a portion thereof opposed to the drive unit casing,
the space is communicated to the flow passage of the refrigerant,
the heat sink comprises heat-sink side fins extending into the space toward the drive unit
casing,
the drive unit casing comprises drive-unit-casing side fins extending into the space
toward the heat sink,
separation means (6) for preventing thermal conduction is provided in the space, wherein
the separation means comprises a low thermal conductive member (61), wherein the low thermal
conductive member is shaped to follow contact portions of the heat-sink side fins and the drive-
unit-casing side fins, and
both the heat-sink side fins and the drive unit casing contact directly with the separation
means, such that both the heat-sink side fins and the drive unit side fins cooperatively generate a
common refrigerant flow pattern.

14 - 16 (canceled).